

Applicant : Takeshi Fukunaga
Serial No. : 09/915,460
Filed : July 25, 2001
Page : 2 of 10

Attorney's Docket No.: 07977-282001 / US5114

In the Claims:

Please amend the claims as follows:

1. (Previously Amended) A light emitting device comprising:

a substrate;

a source wiring over said substrate;

a gate wiring over said substrate;

at least one thin film transistor provided in an intersection of said source wiring and said

gate wiring;

an insulator over said thin film transistor;

first electrode formed on said insulator;

second electrode formed on said insulator so as not to be in contact with said first

electrode; and

a light emitting layer formed between said first and second electrodes on said insulator,

wherein said thin film transistor is electrically connected to said first electrode.

2. (Previously Amended) A light emitting device comprising:

a substrate;

a source wiring over said substrate;

a gate wiring over said substrate;

at least one thin film transistor provided in an intersection of said source wiring and said

gate wiring;

Applicant : Takeshi Fukunaga
Serial No. : 09/915,460
Filed : July 25, 2001
Page : 3 of 10

Attorney's Docket No.: 07977-282001 / US5114

an insulator over said thin film transistor;
a first electrode formed on said insulator;
a second electrode formed on said insulator so as not to be in contact with said first electrode; and
a light emitting layer formed between said first and second electrodes on said insulator,
wherein said first and second electrodes are located so as to produce an electric field in a direction parallel with said insulator, and
wherein said thin film transistor is electrically connected to said first electrode.

3. (Previously Amended) A light emitting device comprising:

a substrate;
a source wiring over said substrate;
a gate wiring over said substrate;
a switching thin film transistor and a current controlling thin film transistor provided in an intersection of said source wiring and said gate wiring;
an insulator over said switching thin film transistor and said current controlling thin film transistor;
a first electrode formed on said insulator;
a second electrode formed on said insulator so as not to be in contact with said first electrode; and
a light emitting layer formed between said first and second electrodes on said insulator,

Applicant : Takeshi Fukunaga
Serial No. : 09/915,460
Filed : July 25, 2001
Page : 4 of 10

Attorney's Docket No.: 07977-282001 / US5114

wherein said current controlling thin film transistor is electrically connected to first electrode.

4. (Previously Amended) A light emitting device comprising:

a substrate;

a source wiring over said substrate;

a gate wiring over said substrate;

at least one thin film transistor provided in an intersection of said source wiring and said gate wiring;

a first insulator over said thin film transistor;

a power supply line over said first insulator;

a second insulator comprising resin over said first insulator and said power supply line;

a first electrode formed on said second insulator;

a second electrode formed on said second insulator so as not to be in contact with said first electrode; and

a light emitting layer formed between said first and second electrodes on said second insulator,

wherein said thin film transistor is electrically connected to said first electrode.

5. (Previously Amended) A light emitting device comprising:

an insulator;

an anode formed on said insulator;

Applicant : Takeshi Fukunaga
Serial No. : 09/915,460
Filed : July 25, 2001
Page : 5 of 10

Attorney's Docket No.: 07977-282001 / US5114

a cathode formed on said insulator so as not to be in contact with said anode; and
a light emitting layer formed between said anode and said cathode on said insulator,
wherein said light emitting layer comprises a first layer having an electron transport
property and a hole transport property and a second layer containing a luminescent material, and
wherein said first layer is formed on said anode, said cathode, and said insulator, and said
second layer is formed on said first layer.

B²

6. (Previously Amended) A light emitting device comprising:

an insulator;

an anode formed on said insulator;

a cathode formed on said insulator so as not to be in contact with said anode; and

a light emitting layer formed between said anode and said cathode on said insulator,

wherein said light emitting layer comprises a first layer having an electron transport
property and a hole transport property and a second layer containing a luminescent material,

wherein said first layer is formed on said anode, said cathode, and said insulator, and said
second layer is formed on said first layer, and

wherein said anode and said cathode are located so as to produce an electric field in a
direction parallel with said insulator.

7. (Previously Amended) A light emitting device comprising:

an insulator;

an anode formed on said insulator;

Applicant : Takeshi Fukunaga
Serial No. : 09/915,460
Filed : July 25, 2001
Page : 6 of 10

Attorney's Docket No.: 07977-282001 / US5114

a cathode formed on said insulator so as not to be in contact with said anode; and
a light emitting layer formed between said anode and said cathode on said insulator,
wherein said light emitting layer comprises a first layer having an electron transport
property and a hole transport property and a second layer containing a luminescent material,
wherein said first layer is formed on said anode, said cathode, and said insulator, and said
second layer is formed on said first layer, and
wherein said anode and said cathode are formed into a comb tooth shape on said insulator
and located such that each tooth of said anode are adjacent to each tooth of said cathode.

8. (Previously Amended) A light emitting device comprising:

an insulator;
an anode formed on said insulator;
a cathode formed on said insulator so as not to be in contact with said anode; and
a light emitting layer formed between said anode and said cathode on said insulator,
wherein said light emitting layer comprises a first layer having an electron transport
property and a hole transport property and a second layer containing a luminescent material,
wherein said first layer is formed on said anode, said cathode, and said insulator, and said
second layer is formed on said first layer, and
wherein said anode and said cathode are formed into a spiral shape on said insulator and
located such that each tooth of said anode are engaged with those of said cathode.

Applicant : Takeshi Fukunaga
Serial No. : 09/915,460
Filed : July 25, 2001
Page : 7 of 10

Attorney's Docket No.: 07977-282001 / US5114

9. (Previously Amended) A light emitting device according to any one of claims 1 to 4,
wherein said light emitting layer is comprises a layer having an electron transport property and a
hole transport property.

10. (Original) A light emitting device according to any one of claims 1 to 8, wherein a
reflective film is provided under said light emitting layer.

B¹

11. (Original) A light emitting device according to any one of claims 1 to 8, wherein said
insulator is transparent and a reflective films is provided over said light emitting layer.

12. (Previously Amended) A light emitting device according to claim 10, wherein said
reflective film is made of one selected from the group consisting of titanium, aluminum, alloy of
titanium and aluminum, silver, or silver alloy.

13. (Previously Amended) A light emitting device according to any one of claims 1 to 4,
wherein a distance between said first and second electrodes is 200 nm or shorter.

14. (Previously Amended) A light emitting device according to any one of claims 1 to 4,
wherein an angle formed by at least one of a side surface of said first electrode or said second
electrode and a surface on said insulator is 30° to 90°.

Applicant : Takeshi Fukunaga
Serial No. : 09/915,460
Filed : July 25, 2001
Page : 8 of 10

Attorney's Docket No.: 07977-282001 / US5114

15. (Previously Amended) A light emitting device according to any one of claims 1 to 4, wherein one of said first and second electrodes comprises a material selected from the group consisting of as gold, nickel, palladium, iridium, and cobalt.

B²
16. (Original) A light emitting device according to any one of claims 1 to 8, wherein said light emitting device is incorporated into an electronic device selected from the group consisting of a display device, a video camera, a head mounted display device, an image back device, a goggle type display device, a portable telephone, a sound reproduction device, and a digital camera.

B²
17. (New) A light emitting device according to claim 3, wherein said first electrode and said second electrode are formed into a comb tooth shape on said insulator and located such that each tooth of said first electrode are adjacent to each tooth of said second electrode.

18. (New) A light emitting device according to claim 4, wherein said first electrode and said second electrode are formed into a spiral shape on said insulator and located such that each tooth of said first electrode are engaged with those of said second electrode.

19. (New) A light emitting device according to any one of claims 5 to 8, wherein a distance between said anode and said cathode is 200 nm or shorter.

Applicant : Takeshi Fukunaga
Serial No. : 09/915,460
Filed : July 25, 2001
Page : 9 of 10

Attorney's Docket No.: 07977-282001 / US5114

20. (New) A light emitting device according to any one of claims 5 to 8, wherein an angle formed by at least one of a side surface of said anode or said cathode and a surface on said insulator is 30° to 90°.

1
uncl
B2
21. (New) A light emitting device according to any one of claims 5 to 8, wherein said anode comprises a material selected from the group consisting of as gold, nickel, palladium, iridium, and cobalt.

22. (New) A light emitting device according to claim 11, wherein said reflective film is made of one selected from the group consisting of titanium, aluminum, alloy of titanium and aluminum, silver, or silver alloy.
